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## Academic priorities must drive budget decisions, administration assures University community

*There won't be any painless solutions, President tells forum*

It's difficult to imagine that there will not be expenditure reductions continuing beyond 1993-94, Vice-President (Finance and Administration) Glenn Harris told the Budget Forum, "Keeping Academic Priorities First".

"They've been with us for some time, they appear to be with us for some time yet, and they may get more severe given what we've been told by government," Harris said at the two-hour forum held at Myer Horowitz Theatre, 25 November.

President Paul Davenport said the provincial government has advised the University and other postsecondary institutions that, "at best we can expect zero percent grant in-

creases for the next four years, and we should be planning on between 0 and -2 percent."

"We're dealing with a lot of uncertainty," Harris said. The year-end forecast predicts a positive balance between \$3 and \$6 million, and the University will likely need to reduce expenditures in the range of \$2-\$7 million in order to balance the 1993-94 budget. "Our operating budget for this year is about \$317 million," Harris explained. (*The Universities Act* stipulates universities cannot plan for deficits.)

The Vice-President explained that, in preparing the coming operating budget, the administration would be assuming undergraduate enrollments will continue higher than the

24,000 target for at least another year; tuition fees will be raised to the maximum allowed by the province's tuition fee policy; significant increases will be incurred in utilities costs; and overall increases in salaries and benefits will continue to outstrip increases in total revenue. Also under consideration is a larger allocation to capital than in 1992-93.

"Once the budget is put in the hands of individual units for the year, we will do our best to protect units against budget changes during the year as a result of unforeseen developments. That means that all uncertainty will be absorbed centrally." By doing that, he explained, it will continue to mean that there is a possibility of year-end deficits or surpluses.

President Paul Davenport said there are no easy solutions. "The long-term situation looks very difficult. We're not dealing with a one-year problem here," he said, and budget reductions will be necessary. "We will, as we have in the past, do that in a selective way. We've already had some preliminary discussions with some of the Vice-Presidents.

"We are all painfully aware of the great pressures that these budgets cuts cause for our Faculties, support staff and students," President Davenport said. "We cannot make these problems disappear magically, but we can work together to see that they do as little damage as possible to our academic mission."

Recalling a Deans' Council retreat in September, the President said one of the items

that was discussed was the importance, as the University faces its budget problems, of not losing sight of its academic mission. "There is a concern among all at this table [the President was flanked by the five Vice-Presidents], shared widely by the Deans and other academics, that at some point our budgetary difficulties will begin to drive our thinking. Part of our forum today is to discuss with you how we can prevent that from happening."

The President praised faculty, support staff and students for their efforts to make sure the University maintained its excellence. "I think the [University] community can take pride in the way we've addressed the problems that have come before us."

The University will likely end up this year with a small net positive balance for three primary reasons: more retirements occurred during the year; there were unexpected enrollment increases; and the University did not make nonsalary inflation allocations. The University receives approximately 82 percent of its operating budget from the government, 15 percent from student fees and 3 percent from other sources.

Given the government's spending control legislation, there is a possibility of a mid-year reduction, or clawback, in the University's grant, Harris said. "That has not happened to date, and I suppose as time goes on it's increasingly unlikely. The possibility still does exist," he said, pointing out that it's possible

*Continued on page 2*

## Dean F-S Chia tenders resignation

*Has led Faculty of Graduate Studies and Research for 9½ years*

Fu-Shiang Chia, Dean of the Faculty of Graduate Studies and Research, is stepping down from that post at the end of December.

"It is my strong belief that this is a good time for the Faculty to have a new Dean, and personally, I am looking forward to the change of activities," he said last week in notifying Chairs and Graduate Coordinators of his decision.

Dr Chia is a professor of zoology; he set aside teaching of undergraduate students in that department in 1983 to take up the Deanship. However, he has continued his supervision of graduate students and their research.

"The record of the Faculty of Graduate Studies and Research during the past nine and a half years can be examined by anyone. If there are any achievements it is through the collective effort of my associate deans, administrative professional officers, staff counselors, supervisors, and graduate students," Dean Chia stated.

"All in our academic community owe Dean Chia an enormous debt for his bold leadership and dedicated service as Dean of Graduate Studies over the last nine and a half years," says President Paul Davenport. "His commitment both to the highest standards of scholarship and to the graduate students themselves has significantly strengthened our graduate programs and our performance in research generally. The remarkable increase during his term of office in external support for graduate students, and the growth and high quality of our U of A PhD Fellowships, are both tributes to his hard work and leadership."

Vice-President (Academic) John McDonald describes Dean Chia as "a fine scholar who has dedicated a considerable portion of his career to the administration of this University without losing his enthusiasm and effectiveness as a researcher and teacher.

"His warm personality and obvious sincerity have won him many friends," Dr McDonald said. "When Fu-Shiang announced that he would step down as Dean of the Faculty of Graduate Studies and Research at the end of December, he surprised everyone, including me. The action was, however, characteristic of a person who thinks about his goals, and who acts decisively when he has come to a conclusion.

"Dean Chia made it clear at the outset of his first term that he wanted the University of Alberta to strive for the highest quality graduate programs. He has insisted that departments recruit the best possible candidates, and has helped to bring about a significant increase in the number of award-winning graduate students who come to the University. He also believes that those students who do come to this University deserve the best. For example, he has insisted on high standards of performance on the part of supervisors as well as students.

"I want to acknowledge Fu-Shiang's dedication and hard work and thank him for his contribution to the strengthening of graduate studies at the U of A."

JA (Tony) Kernahan, one of three Associate Deans in the Faculty, has been named Acting Dean, effective 1 January.

An interview with Dean Chia appears on page 3 of this issue.



Former premiers Peter Lougheed, left, and Allan Blakeney, right, shared a few words with University President Paul Davenport before Blakeney delivered the Faculty of Law's Second Annual Merv Leitch QC Lecture, 24 November. See story page 5.

# Meekison says constitutional deadlock doesn't mean aboriginal self-government dead

*What happens now that the Charlottetown Accord is history?*

The Charlottetown Accord may have gone down to defeat, but that doesn't mean some form of aboriginal self-government will not emerge, says Peter Meekison (Political Science).

"The Royal Commission now gives Canadians and aboriginal peoples a second chance to develop some kind of proposal on self government, and we'll see much more activity in this area," said Dr Meekison, who was invited by the Political Science Undergraduate Students Association to give his assessment of the political scene in the wake of the downfall of the Charlottetown Accord.

About a year ago, there was some debate among people who felt that perhaps the aboriginal questions should be deferred until the Royal Commission concluded its deliberations, but Royal Commission member Allan Blakeney feels the Royal Commission represents a fallback position, explained Dr Meekison.

Dr Meekison said although formal constitutional solutions may not be forthcoming, changes will nevertheless occur on other fronts. For example, assuming the Reform Party elects some members to the next Parliament, there may be a push for parliamentary reform. "The pressure will be there," he said, suggesting a minority government may act on the matter.

"I think you'll also see more court action outside the Charter. If you can't change the Constitution—for whatever reason—then you push the boundaries through court action. And it may not be initiated by governments, but by third parties," said Dr Meekison, a longtime constitutional adviser to the provincial government.

He predicted some kind of council of the federation will be developed. "My sense is that that kind of federal-provincial mecha-

nism could evolve," he said, citing New Brunswick Premier Frank McKenna's recent complaints about trade barriers established by Quebec, Saskatchewan and British Columbia. Such a federal-provincial mechanism could one day resolve these kinds of disputes.

The current fiscal situation governments now find themselves in is going to have a major influence on the course of events, said Dr Meekison. "That might make governments less sensitive to the jurisdictional questions than they have been in the past. Governments today are interdependent, whether we like it or not."

He cautioned against drawing conclusions at this time. Although not convinced the Parti Quebecois will win the next provincial election, Dr Meekison said, "We'll have a better idea of what Quebec might do after the Liberal Party has its convention next February."

# Safety on Campus Committee extends invitation to discuss recommendations

The recommendations of the Students' Unwanted Sexual Experiences Committee have been endorsed by the Safety on Campus Committee and will be discussed at the next Council on Student Life meeting, 8 December, 1:30 pm, 3-15 University Hall.

This will be an open meeting and any interested individuals and/or groups are invited to participate in the discussions of the recommendations.

The recommendations include: that policy, procedure and protocol on sexual assault be developed and implemented for the U of A; that the U of A establish and fund a Sexual Assault Centre to be opened by September 1993 and to be centrally located on campus; that the University employ on a full-time basis a person trained in the area of sexual assault to act as Coordinator of the U of A Sexual Assault Centre; that an educa-

tional program addressing sexual assault be developed and implemented through the Sexual Assault Centre; that an additional full-time position in Student Counselling be created to respond to the counselling needs of victims of sexual assault; and that resources be provided for the mandatory training for Campus Security Services personnel regarding responding to and investigating sexual assault.

Telephone Natalie Sharpe, Chair, Safety on Campus Committee, at 492-2965, or Debra Hughes, Secretary, at 492-4145, if you wish to receive a copy of these recommendations.

## CURRENTS

### ANR Research Trust Fund

The ANR Research Trust Fund has available grants up to \$5,000 for research projects related to HIV infection and AIDS related matters. The projects must be designed to produce publishable results, and may be part of a larger project. Deadline for applications will be 1 March and 1 October. Application forms may be obtained from Adrian Jones, Chair of the ANR Research Trust Fund Committee, Faculty of Medicine, 2J2.00 Mackenzie Health Sciences Centre, telephone 492-6621.

### Farewell reception for Bob James

Members of the University community are cordially invited to a reception Monday, 14 December, at 4 pm at the Faculty Club (Upper Lounge), in honour of Bob James, Vice-President (Research). Dr James is stepping down from his position on 31 December. Friends and colleagues of Bob and Arline are invited to join President Paul Davenport in wishing the Jameses well.

Those wishing to mark the occasion with a gift are invited to send contributions to Mrs Pat Heatherington at 3-1 University Hall. Cheques may be made payable to the Bob James Gift Fund.

## To all faculty, staff and students at the University of Alberta

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Your United Way Campaign Committee is delighted with the contributions which have been made to date. As this year's campaign draws to a close, the total now stands at \$222,487 or 89 percent of the goal.

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Help the poor, the hungry and the homeless. Help people with disabilities. Help the University community reach its goal. Help the mercury hit the top. Your gift really matters.

With thanks!

Doug Wilson

(Co-chairs) and the 1992 committee

John Bertie

## FOLIO

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## Budget

*Continued from page 1*

the University may not hear from the government about the amount of the grant until April at the earliest.

Vice-President (Academic) John McDonald said there is a tendency during difficult times to think that everything is being driven by the budget, but it's important to recognize that Faculties and departments are finding creative ways of dealing with budget problems. "The whole idea is to let academic priorities drive the budget.

"Restructuring is not just a centrally planned activity. In many units, internal restructuring is going on in a way that has the possibility of giving us better programs even though the costs have been reduced," he said, citing as examples the new programs introduced recently by the Faculty of Agriculture and Forestry. The President pointed out that the U of A is seen as a national leader for its restructuring efforts.

"The link between the two, the operating budget considerations and the restructuring, is clear," said Dr McDonald. "You can sometimes effect savings better in one way, and

sometimes better in the other. They're linked and I think we need to keep those links in mind at all times."

The President said there are some projects under way or completed that are going to make a real difference. The renovations to Corbett Hall, the Eastpoint Library facility, the Timms Centre and the new computer network will enhance the University's ability to provide quality teaching and research. The University's continuing commitment to accessibility is a source of pride, as is the fact that over the last four years, external research grants have gone up by about 40 percent.

Kevan Warner, Acting President of the Non-Academic Staff Association, reiterated the need for an employee suggestion program, so people who see on a day-to-day basis where the University could be improving itself can make suggestions.

Physics Chair Ernie Kanasevich said when the University makes budget cuts, it should be careful not to hurt some of the University's best departments. "As a Chair, I'm willing to accept that budget cuts have to be made, but it seems that there's an assumption that Deans have god-like powers in making

decisions with respect to what happens at the departmental level."

Deans will have the opportunity to point out departmental strengths and situations where departments may not have made such good choices in the past, responded Dr McDonald.

Association of the Academic Staff President Rod Wilson said, "I'm really disturbed by the language we use that suggests we're going to transfer systematically funds from operating to capital budgets. What that really means is that we're taking money from the staff and transferring it to the buildings. This government has throughout its 20-year history a clear penchant for building things and then not providing for their maintenance."

"I share your frustration," said Dr Davenport, adding that the University has about \$300 million in deferred maintenance.

Sean Andrew, Students' Union Vice-President Finance and Administration, acknowledged that cutbacks won't go away. "I would sooner see cutbacks applied selectively," he said, adding that the University's decision to opt for vertical cuts rather than universally applied cuts was the right approach.



University  
of  
Alberta



# F-S Chia leaves Deanship feeling fully justified

As he moves into his last month as Dean of the Faculty of Graduate Studies and Research (FGSR), Fu-Shiang Chia, an administrative draftee, can reflect on the earning of an impressive set of stripes (green and gold, naturally).

His successor will inherit a formidable legacy. When he accepted a second term in 1988, Dean Chia placed the establishment of PhD recruitment fellowships at the top of his agenda. These awards were launched three years ago and by 1994 will have evolved into a \$3 million a year program. No other university in the country has as extensive a program, Dean Chia feels.

When he was appointed Dean in 1983, 125 U of A graduate students held national scholarships. Today, the number stands at 215.

Graduate scholarships management must be handled by FGSR, not the Office of Student Awards, he maintained, saying the matter was "very important to me ever since I became Dean." The changeover was made a year and a half ago.

Only two departments, Religious Studies and East Asian Languages and Literatures, are without graduate programs and Dean Chia says both of them have prepared proposals. Also during the later years of his tenure, a number of agreements pertaining to the sharing of graduate resources have been struck with the University of Calgary. In the current year, more than \$100,000 has been budgeted in support of graduate students' travel to national and international conferences and symposia. "It's imperative our students are exposed to their peers," the Dean says.

In his first year in office, Dean Chia set out to build a strong team and set clear objectives.

He interacted with the Board of Governors, the President and Vice-President (Academic), and prepared the PACCR Self-study Report.

New office space was established in University Hall and was later doubled.

"We took on more students and more activities without adding a single new staff member," Dean Chia recalls, attributing that accomplishment to astute use of developing technology. For example, where three people once worked on student fee assessments using 4 X 6-inch cards and recording all details manually, one person now carries out this task, freeing the others for new duties.

**"We are in Edmonton and supported by the Alberta Government, but our sights must be international."**

Although still getting his (administrative) sea legs, Dean Chia advanced the Faculty by adhering to the principle of the biology of the food chain: for every step in the chain, 10 percent of the energy allotted is lost, and, if you can go through one layer, there's no need to go through two.

FGSR has four components, he outlines: attract good students, provide a favourable environment, provide sound supervision, and follow the students right through their programs and if possible, assist in their being placed in the profession of their choosing.

All along, the byword has been quality. Any graduate program must be of high quality. "If it's not of high quality, forget it" are words Dean Chia has lived by religiously.

There's even a written code in the Faculty office that says "At no time shall we compromise quality."

"You [the student] have a talent and we help you as you express that talent. That's what education's about."

Heterogeneity has also been of paramount importance. "We are in Edmonton and supported by the Alberta Government, but our sights must be international." Dean Chia says he would like to see the University's foreign student population remain at about 20 percent of the graduate student population. There are now 4,300 graduate students at the U of A. That's more than ever before, but still below the national increase.

The FGSR team of Associate Deans Patricia Demers, Tony Kernahan and Bill McGill and Administrative Professional Officer Heather Hogg and Registrar Paul Pearlstone is firm but always willing to be understanding of and sympathetic to students and the problems they encounter as they work towards their degrees, the Dean says. "We're all agreed that graduate programs are the key element to the reputation of a university. No university can claim first-class status without top graduate programs."

Dr Chia has been in administration since 1978, first as Department Chair and, since 1983, as Dean of FGSR.

"I was thinking of retiring for the past year or so but the timing wasn't right. Now it is and that's why I'm stepping down," he commented last Friday.

Through *Folio* he thanks the office staff, supervisors, graduate student coordinators and, of course, students themselves. "I happened to be the Dean but things wouldn't



Fu-Shiang Chia

have been accomplished had there not been a collaborative effort."

"I've spent 80 percent of my energy as an administrator and 20 percent as a research scientist and teacher. I want to reverse that." Once he's back in the Zoology Department, he'll renew ties with his six doctoral students and welcome two new postdoctoral fellows, one from Scotland, the other from Japan. He'll also edit an international reference book on echinoderms (sea urchins, starfishes, etc.) lecture in an undergraduate course, and continue to collaborate with colleagues in the United States and Europe on marine biology research. (Dean Chia holds a three-year, \$700,000 per year, grant from the Natural Sciences and Engineering Research Council.)

## Wanted: sure-handed person(s) to pick up the telecommunications ball

Attention champions and champions-in-waiting: the telecommunications community in Alberta would like a word with you about putting its infrastructure over the top. As things stand now, ideas have been taken as far as they can; action is of the essence.

This feeling pervaded a day-long (13 November) workshop held under the auspices of the Vice-President (Research) and the Vice-President (Student and Academic Services), and attended by 138 people who represented industry, government (both provincial and federal) and education. (The figure far exceeded the number of registrants at the first such telecommunications workshop which was conducted on campus in November 1991. Lois Stanford, Vice-President (Student and Academic Services), said, "I thought this [the second workshop] would be a fairly local conference, but it turned into much more than that.")

The major goal is to link Alberta's own regional network, ARNet, with CANARIE, the Canadian Network for the Advancement of Research, Industry and Education which has been developed over the past five years at a cost of \$600 million.

In welcoming people to the workshop, President Paul Davenport expressed disappointment with the lack of progress in installing network(s) that would make the country more competitive internationally. "We have some catching up to do in Canada and I'm sure we're all aware of it."

Pat Samson, director of Technology Applications, Industry, Science and Technology Canada, explained that a phased approach will be applied. Negotiations with CA\*net aimed at upgrading the network will continue (\$28 mil-

lion in federal funds has been reserved). If CANARIE is a T1 network (1.54 megabits per second) or a T3 network (45 megabits per second), ARNet would have to be upgraded to the same level. Alberta companies would, of course, have the opportunity to test their services and there would be equal access opportunity for all provinces. A business plan will be prepared for phase 2 which consists of the establishment of showcase and demonstration facilities. This phase is scheduled to start in 1994-95.

Phase 3, planned for 1997-98, is the migration to a trans-Canada gigabit network.

It's important to establish an independent organization that will operate at arm's length from the federal government, Samson said. Industry and the private sector should assume control because they are more knowledgeable about the situation than government; Finance Minister Don Mazankowski and Industry, Science and Technology Minister Michael Wilson are in agreement with this, he told the workshop.

The intent is that each province will improve its primary network at its (the province's) own speed while the federal government concentrates on bringing the backbone network—CANARIE—into the picture. Samson said he anticipates appearing before Cabinet in December and receiving approval to start a month or so later.

"We're embarking on a very high risk project and that's why we're taking the phased approach," he stressed. A number of participants at the workshop saw tariffs as the single biggest impediment to developing R&D networking. "Tariffs are going to have to come down. It's insane if they don't," Samson said.

He called the initiative a Field of Dreams exercise ("If you build it, they will come)."

Monica Beltrametti, Director of Computing and Network Systems, University of Alberta, emphasized that researchers have to be able to converse with their peers worldwide.

On a smaller scale, people talk of distance education, but not too many rural communities in the province can be reached, Dr Beltrametti continued. "It's not clear whether we need high speeds everywhere in Alberta. We do between Edmonton and Calgary. As for the rest of the province, it would be nice but perhaps not essential."

Participants broke into focus groups in the afternoon, with each assigned one topic. The group that considered governance said the initial stakeholders should be the postsecondary education group, some industrial groups, the health sector and the K to 12 (kindergarten to Grade 12) group. However, it's important that the membership list be open-ended. The network should be independent and fee structures have to be established quickly. The focus group also said that members of the network must be assured that they are in a limited liability position.

Urged Vice-President (Research) Bob James, "We've got to accept this challenge if we want to remain in the mainstream of human development." He spoke of the need to conduct a cost-benefit analysis and to get "all sectors of society" involved in the enterprise.

Cooper Langford, Dr James' counterpart at the University of Calgary, said it was fairly clear to him that the role of champion had been assumed by the U of A's computing group.

According to Phil Haswell (Electrical Engineering), the University has requested a meeting with the Universities Coordinating Council in an effort to "strike a common front." The University will also continue to meet with Northern Telecom, he said.

Haswell, who helped organize the workshop, says that Internet's array of host computer connections is expanding at the rate of about 10 percent per month, and that there are now about 1.3 million host computers on Internet.

In Alberta, five major sites are on Internet, but Haswell and others who attended the workshop feel there should be more general access. In Texas, Haswell points out, every K to 12 school has an Internet connection. Such connections save money and give kids access to resources they would normally not have access to, he said.

Grade school students in Alberta's towns don't have this option, due in large measure to CRTC-regulated rates that put a damper on the shifting of large amounts of data. In the US, the rates are deregulated and can be as low as one-tenth the cost imposed in Alberta and elsewhere in Canada.

If CANARIE doesn't progress favourably, Canadians will drive a line right to the States and get on to Internet, Haswell predicted. "We're going to miss the boat if we don't get off the dime pretty soon."

Joining with the U of A to sponsor the workshop were: AGT Ltd, Alberta Technology, Research and Telecommunications, CA\*net, EdTel, Industry, Science and Technology Canada, Northern Telecom Canada Ltd and the University of Calgary.

# Demand for distance education on the increase across the province

*Professionals in outlying areas seeking to upgrade their skills*



From his sixth floor office in Education South, Dave Collett (Adult, Career and Technology Education) has almost instant contact via a fax/modem connected to his computer with students in an adult education program the University of Alberta is offering in the lower mainland of British Columbia.

The BC universities do not offer an adult education program at the bachelor's level and—as it is in Alberta—money for new initiatives is tough to find. But the U of A does offer such a program, so distance education courses are delivered in cooperation with Vancouver Community College.

"The clients are professional educators, full-time instructors and teachers working at public and private colleges, and institutes of technology, who want to develop their expertise," says Dr Collett, who chairs this University's distance education coordinating committee, a committee set up to coordinate all distance education activities on campus.

Distance education activities can be print-based, or delivered by one or a combination of several strategies and technologies including audio videoconferencing, computer-aided communication or video teleconferencing.

"The demand for distance education at the university level is primarily coming from professionals looking for programs of continuing educational development. By and large, it's these people who can't take extended time off to come to a centre to study. They're prepared to pay, and they see the benefits of furthering their education.

"The institutions in this province have been slow to respond to these needs," Dr Collett says, and other institutions in the US and other parts of Canada have stepped in to meet demands. But more and more Faculties at the U of A are getting involved with distance education for a variety of different reasons, he says, listing Pharmacy, Nursing, Medicine, Education, Engineering, Faculté Saint-Jean, Extension and Arts as Faculties that have offered distance education courses.

The use of distance learning is growing slowly at the University, says Instructional Technology Centre Director David Mappin, and a couple of new courses are being offered this year. Dr Collett adds that the types of courses being offered include noncredit, graduate diploma, master's level and undergraduate. "In the future, we'll likely be looking at doctoral programs," he says, noting that some Albertans are actually taking PhD programs, in part through distance education offered by American institutions.

Meeting those professionals' needs rests primarily with the very institutions in the province that offer professional programs. "There's no way as a community we can afford to develop and offer these programs at Athabasca University. They do a good job of distance education, but they can only do it in certain program areas," Dr Collett says. And it doesn't make a lot of sense for it to develop highly specialized engineering programs, for example, when the expertise already exists at the U of A.

"Now, the technology has grown to the point where we can offer more effective distance programming," he says. Technological innovations are improving and expanding teleconferencing capabilities at a monthly—not yearly—rate. These now incorporate video and computer graphics and the ability to gain access to, and manipulate, computer files.

"We know the technology is going to move; it's just a question of which ones are going to make the biggest difference," says Mappin. "There's no question that people want to use full-video teleconferencing."

With as little as 24 hours notice, the Faculty of Education's Instructional Technology Centre can arrange an audio-teleconference with up to 15 sites, on or off campus; the province's long-distance toll-free RITE network is now available in more than 35

centres. The Centre also has a teleconferencing classroom for 10 people on campus. And instructional support services exist for graphics production, television production and satellite reception.

This July, the Centre arranged a conference call, so Philosophy Professor Roger Shiner could conduct an oral examination. The PhD student, who couldn't afford the hefty airfare costs, was in Auckland, New Zealand, the external examiner was at Berkeley, California, and other committee members gathered in the conference room in Education North. "Everyone took it in stride and it was a perfectly satisfactory compromise," says Dr Shiner, although he's quick to add that the ideal situation is still to have everyone around a single table.

"Given the costs, I think people are going to have to look at this more seriously."

Nor is distance education strictly limited to a single method of delivery. Combinations are possible. For example, the MEd (Educa-

tional Administration) being offered to Yellowknife educators will involve some on-site travel by professors to Yellowknife, as well as technological and print support.

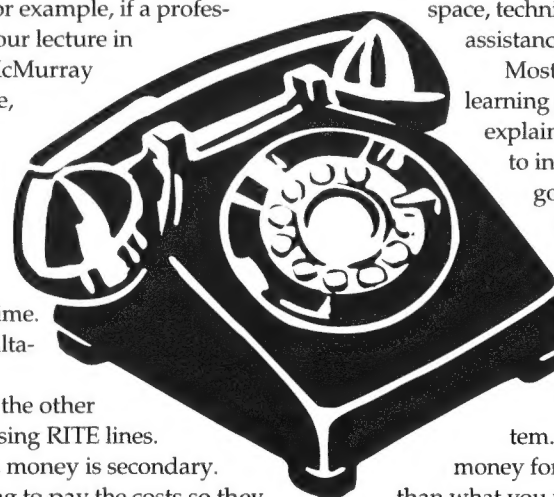
Distance education can now be offered at reasonable cost. For example, if a professor gave a three-hour lecture in Edmonton, Fort McMurray and Grande Prairie, according to current travel guidelines, it would cost the University \$768 and 20 or more hours of lost productivity time. A three-hour simultaneous audio teleconference, on the other hand, costs \$180 using RITE lines.

In many cases, money is secondary. Students are willing to pay the costs so they can further their education. Most distance education programming is near self-supporting, says Dr Collett, and in many instances private and public institutions in the community are solidly behind the initiatives. Syncrude in Fort McMurray, for example, is

providing substantial support so its engineers can take courses on site, and Alberta Advanced Education has backed other initiatives. Various colleges and professional organizations often support distance education with space, technical and organizational assistance.

Most of the costs of distance learning are "front-end loaded", explains Mappin. "You've got to invest in developing a good print-course package, in the development of new video materials or computer materials ... if you're mailing them out or transmitting them over a telephone system. You're always paying money for something different than what you would normally pay for."

"If you want to talk about effective learning at a distance, you have to look at the whole range of methods and techniques that are available today and pick the ones that are going to be most effective for the kinds of things you're doing."



## University begins process to enable it to call for proposals for West 240

*Meetings with community groups will be prevalent*

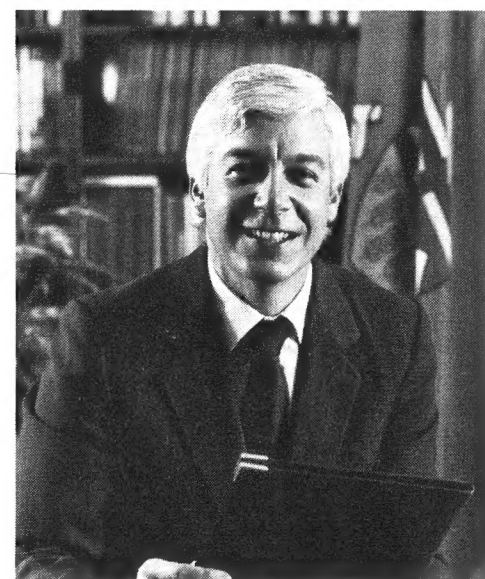
As the University of Alberta begins the process which could lead to its calling for proposals for the development of the West 240, the institution will work hard to consult with neighbouring communities, the City of Edmonton, the Government of Alberta and the Faculty of Agriculture and Forestry, says President Paul Davenport.

Addressing a recent Senate meeting, the President made it clear that the University is not issuing a call for proposals at this time. "This is extremely important to the University," he said, and the University is striving to keep the key players well informed.

At its 6 November meeting, the Board of Governors decided to begin a process that would enable the University to call for proposals for the development of its land known as the West 240. The land is bordered by two neighbourhoods, Grandview Heights and Landsdowne, and is situated west of 122 Street and south of 62 Avenue. Currently, academic staff conduct research on the land.

Responding to questions raised by Grandview Community League President Betty-Anne Pearson at the Senate meeting, Vice-President (Development and Community Affairs) John McConnell said, "Jamie Fleming [Director, Investment and Real Estate Office] is working on arranging a meeting where we will sit down with you and other interested people in the communities to listen to your concerns and to make clear what the Board's decision was in November.

"We're really committed to keeping everyone informed on this," he said, "and the best thing to do if you have questions and



President Paul Davenport: keeping key players informed

concerns that something is happening that you don't know about or are concerned about, is to call Glenn Harris [Vice-President, (Finance and Administration)], Jamie Fleming, Don Bellow [Associate Vice-President (Facilities)], or me."

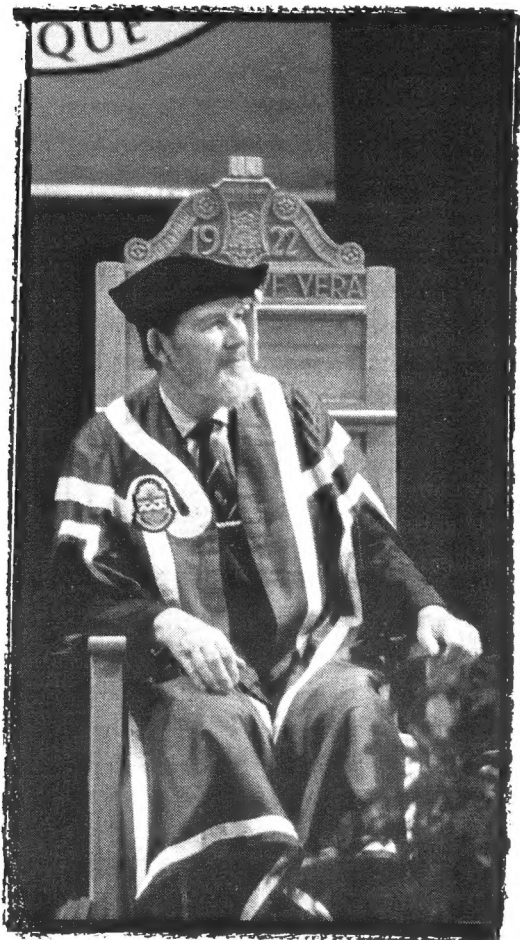
Pearson, a Senate member, said she has been receiving a lot of phone calls from residents who are concerned that they're going to lose the green space. "Many of us believe that green spaces within cities do have value ... and we're also concerned that if a residential neighbourhood does go in there with at least a thousand new homes, that will mean 1,500 or 1,600 new cars converging on 114 Street."





# THE 1991-92 SENATE ANNUAL REPORT

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A month ago, I little thought that I should be composing my mid-term report as Chancellor from a bed in the University Hospital, scarcely able to think straight, much less to compose an adequate report on a busy and fulfilling year by a dynamic Senate. But life is full of surprises, and because an increasingly painful shoulder turned out to be a large internal infection that will take some weeks to control, I think it best to apologize for my incapacity, and to turn this year's Senate report over to Mrs Mary Totman, the Executive Officer, who so ably carries on the organization of Senate affairs in my absence, aided by Mrs Doreen Kostash and Mrs Mary Jane MacDonald.

Before doing so, however, I gratefully acknowledge the contributions of the committee chairs who do so much of the work that fulfills the Senate mandate to represent the public interest in the University and to act as a bridge between the University and its community. I thank all Senate members who work so hard to make our University a better academic institution, and I also express my appreciation to everyone who has helped me to understand the potential of this, our most potent intellectual resource.

Sandy A Mactaggart  
Chancellor

## *The Role of the Senate*

*The Senate acts as a bridge between the  
University and the public.*

*The Senate role is based on the belief that  
an ongoing relationship with the community  
is fundamental to the effectiveness of the  
University. Through the Senate, the commu-  
nity can deliver an opinion or a point of view  
to the University; and through the Senate the  
University can reach the community.*

## Committee Activities

### Executive

The Executive Committee was newly constituted this year, and now comprises the Chancellor (in the Chair), the President, Vice-Chair, the Vice-Presidents (External) of the Graduate Students' Association and the Students' Union, as well as the Chairs of the Finance and Evaluation, Inquiries and Planning, Nominating and Public Relations and Community Affairs Committees. In addition to overseeing the work of the Senate between plenary sessions, the Executive planned the agenda items for the four full-day meetings held each year.

### Finance and Evaluation

One of three newly established committees, its first task was to prepare Terms of Reference for approval by Senate. Initially committee members concentrated on understanding the needs of the Senate Office related to the operating budget. It recommended to Senate that a Special Projects Fund be established, so that projects outside the regular programs could be funded. This

### Inquiries and Planning

Another of the three newly established committees, it drafted Terms of Reference, which were approved by Senate. The committee recommended a protocol for Confidentiality of Senate material, reviewed several issues submitted to it for attention, and recommended the establishment of a Task Force on Student Finance, subject to appropriate funding being found. In addition, it recommended that a follow-up committee to review the Senate Task Force on the University and the North be established, and this was done.

### Nominating

The Nominating Committee organized orientation for new Senate members; sought nominations for vacancies among the publicly-elected Senate members and selected a slate of names for presentation to and election by Senate; and made recommendations for committee appointments. Apart from the regular review of all committee appointments before the

beginning of the academic year, the committee met on several occasions, to consider appointments to the many groups and organizations on campus requesting Senate representation.

### Public Relations and Community Affairs

During the year this committee planned and organized the Student Recognition program. There are two parts: visiting high

schools where requested, to present a certificate to winners of the Leadership Awards Scholarships; and arranging a reception to welcome this group of students, their families, donors and faculty. The community service component which is evaluated when selecting recipients of Leadership Awards (the students also have to graduate in the top 10 percent of their class) makes it most appropriate for Senate to be involved. The Senate appreciated the sponsorship of the Students' Union (for funding the folders presented to each student) and the Alumni Association (for funding the reception). Senate's objectives are to raise the profile of the Senate across Alberta, and to make this very-special group of high-achieving students feel welcome. Twenty-three high schools were visited. Twenty-one Senate members, one former member of Senate and one member of the Alumni Association participated in these presentations.

A second project was a questionnaire administered to Senate Alumni, asking how many people would like further involvement at the University of Alberta and what form they would like it to take. Responses to the questionnaire were enthusiastic, and this coming year it is hoped to arrange one social function, and also investigate opportunities on campus for volunteer work by people who have served the Senate well.

Another innovation planned by this committee was a pilot project where a small group of Senate members visited two communities outside of Edmonton, to discuss issues of mutual interest. These meetings, in Onoway and Morinville, created a good deal of valuable discussion, and it is planned to continue this project.

### Task Force Activity

The final Report of the Progress Review Committee looking at the 1986 Task Force Report on the Delivery of University Education was presented to Senate in September, following the discussion of the draft report in April. The Progress Review Committee had considered several thoughtful additional comments and input, and had refined the recommendations to reflect this additional information. The recommendations were circulated to those most directly affected, and Senate continues to be interested in all developments on the campus related to distance delivery of education.

During this past year the Senate received financial support from the Dean of Student Services towards the cost of staff resources and was able to establish a Task Force on Student Finance. The Task Force, with representatives from the faculty, both student organizations and off-campus Senate members, met first in November, and concentrated on listening to the very many groups on campus which responded to the call for Briefs. Strong support from the administration in helping to clarify the present situation and the facilities available, and several meetings with the Students Finance Board have assisted the members to meet their goal of presenting a Draft Report to Senate in November 1992.

Senate continues to support, with many hours of volunteer time, the concept of task forces on subjects of particular interest and timeliness. This year, too, a small Review Committee has started to look at progress since the presentation in September 1988 of the Task Force on the University and the North. It plans to present its report in February 1993.

### Convocation

At Fall Convocation honorary degrees were conferred upon Her Honour MM Bowker, \*MRP Carse, RU Lemieux and \*RD Southern. Six hundred and fifty-four students (494 of those from Graduate Studies) attended the two days of Fall Convocation, out of a total of 1,512 graduates; and during the six days of Spring Convocation 1992, 2,820 out of 4,695 graduates attended, 454 of those graduate students. Honorary degree recipients during Spring Convocation were TT Aoki, and \*N Hersom (on the occasion of the 50th Anniversary of the Faculty of Education), \*D Barmes and RE Jordan (on the occasion of the 75th Anniversary of the Faculty of Dentistry), \*H Cixous, O Honchar, \*HJS Pearson, Madam Justice E Picard, Mr Justice W Stevenson and \*the Hon. G Towers.

(\* gave Convocation Address)



*Mike Belosevic (Zoology), left, welcomes Faculty of Science Visiting Committee members Margaret Cook, James Morrison (middle) and Jack Cressey to his lab.*

*The Visiting Committee Program, which was introduced by Chancellor Mactaggart, precipitates the sharing of information/ideas between leaders in the community and members of a particular Faculty.*

desire for additional flexibility was supported by Senate. The Senate Library Endowment Fund, established five years ago, had reached its goal and in June a plaque was unveiled in the Bruce Peel Special Collections Library, to acknowledge with gratitude the donors to the Fund. The Fund allows books to be bought and donated to the Special Collections Library by Senate in honour of each honorary degree recipient. Mr John Charles, Special Collections Librarian, arranged a display of some of the volumes purchased over the past few years. The new Senate Special Projects Fund will be a priority for this committee next year.

### Honorary Degrees

This committee is responsible for seeking nominations for honorary degrees, and for selecting those people judged most deserving of receiving the University's highest honor. During the year it reviewed the requirements for completing a nomination, and in the interests of greater ease of comparison between nominations (and there are always far more worthy nominations than can be selected) it devised a series of forms for use in the future.





## Senate Activities

The first meeting of the academic year was held in Fort McMurray. After a visit to the Alberta Oil Sands Technology and Research Authority Underground Test Facility arranged by the Chairman, Mr WJ Yurko, Senate went to Keyano College at the invitation of the President, Dr DH MacRae, to hold its public meeting.

In addition to receiving the report from the Progress Review Committee on the Delivery of University Education (see Task Force Activity opposite page), Senate heard from Dr R Boehm, Director of Native Student Services, about the work of her unit, and more specifically listened to members of the public in Fort McMurray speak about ways in which the University could better serve this area of northern Alberta. The Board of Keyano College called for more cooperation in transfer

of credit; a look at the role of community colleges, not necessarily as degree-granting institutions; more outreach for native people; and distance courses for PhD programs. These comments were echoed in part by several other representatives from the community, with special emphasis on transfer to the Faculty of Education (3rd Year), difficulties for students leaving home to study in Edmonton, inclusion of required courses on learning disabilities in the Faculty of Education, opportunities for staff development in the school systems in Fort McMurray and a renewed plea to encourage participation by aboriginal people in postsecondary education. Some of the detailed concerns were answered by the President or the Registrar. Other questions were referred to offices on campus for a response. As always, the Senate's objective in meeting off-campus is to strengthen the links between the University and the community, in accordance with its mission.

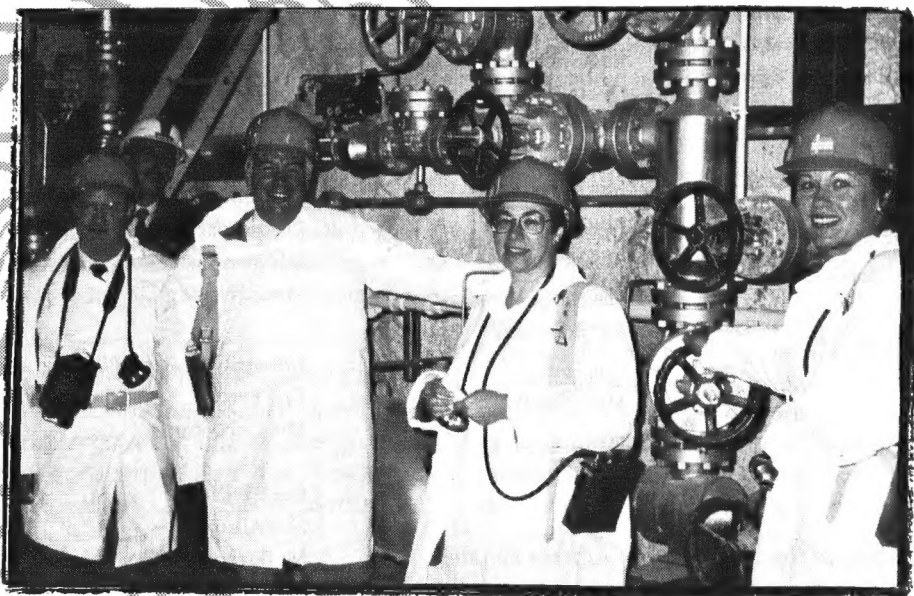
In November Senate invited Dr R Smith (Business) to share his thoughts on University Governance. He had prepared a most interesting paper, and during his presentation he explained the formal organization of the University and the way it differs from private business, as well as describing the usual career path of an academic. He answered questions from members of Senate, and was thanked warmly for clarifying many issues. Also in November, the Senate received the Report of the Senate Lay Observers of the Admissions Process in Quota Programs (a task undertaken at the request of General Faculties Council), and discussed with the Registrar the Enrollment Report relating to 1991 Admissions.

In February 1992 Senate was invited to meet off-campus at the Edmonton Public School Board Education Centre. There was discussion with members of both Edmonton school boards, trustees, administrators, principals, students and parents of some of the issues relating to curriculum, teacher certification and access. Senate was hosted to lunch by the Edmonton Public School Board, and the occasion provided an excellent opportunity for direct interaction between groups who all have the future of the student at heart. Following the meeting some Senate members participated in the Edmonton Space and Science Centre Challenger Learning Centre program and were welcomed there by Mr L Young, Director.

The April meeting was held in the newly opened University Extension Centre and Dean Foth hosted refreshments for Senate members. The meeting included a report from Mr B O'Neill, (Senate member, appointed from the Non-Academic staff by the Minister of Advanced Education), to celebrate the 25th anniversary of the Association; a presentation by Dean Foth on changes within the Faculty and its future plans; and from Associate Vice-President (International Affairs) B Evans, Mr W Allen (Director, Alberta International) and Mr B Caldwell (Director, International Centre), information about the University of Alberta's international connections and the role of international students at the University. Senate members visited the International Centre and had lunch in small groups with students, at places selected by the students. All Senate members felt

they had learned a great deal through informal conversation and discussion.

At all meetings of Senate regular reports are received from the Chancellor, the President, standing committees, as well as the Alumni Association, the Graduate Students' Association and the Students' Union. In this way Senate members—all volunteers—are kept up to date on a wide variety of events and issues at the University of Alberta. In addition, many of them accept invitations to campus functions and are able to reinforce the link between the University and the community.



*Colin McDonald, President Paul Davenport, Christina Andrews and Delphine Davidson, left to right, become acclimated to AOSTRA's Underground Test Facility. The tour complemented Senate's September 1991 business meeting in Fort McMurray.*

*Chancellor Sandy Mactaggart enjoys a working lunch with students in CAB.*



## Senate Membership List 1991-92

### Ex Officio

Mr S A Mactaggart  
(Chancellor)  
Dr P Davenport (President)  
Dr W J McDonald  
(Vice-President (Academic))  
Dr D Foth  
(Dean of Extension)  
Dr P J Miller  
(Dean of Student Services)  
Mrs C Andrews  
(President, Alumni Association)  
Mrs M Shortt  
(Vice-President, Alumni Association)

### Appointed

**Deans' Council**  
Dr P D Clements  
Dr R Moskaluk  
**Board of Governors**  
Mrs M Lobay  
Mr M C Welsh  
**General Faculties Council**  
Dr M Cox-Bishop  
Dr A MacKay  
Dr D Rochfort  
**Students' Union**  
Mr R Boissonnault  
Mr M Kennedy  
Mr S Mustapha  
Mrs M Robinson  
**Graduate Students' Association**  
Mr J Sheridan  
**Minister of Advanced Education (Non-Academic Staff Members)**  
Mrs C Dechaine  
Mr B O'Neill  
**Minister of Advanced Education (Public Members)**  
Mr G Ahmed  
Mrs S Edwards  
Mr WJM Henning  
Mr K Hill (Fort McMurray)  
Dr Z Lakhani  
Mr R Louis (Hobbema)  
Mr P Shirt  
Dr C Vos (Sherwood Park)  
Dr L Williams  
**Elected Members**  
Mrs D Allan  
† Dr B Armstrong  
Mrs D Badir  
Mr K Balkwill  
Mr S Boga (Fort McMurray)  
Mr G Cheeseman  
Mr D Daniels (Yellowknife)  
Ms D Davidson (Medicine Hat)  
Dr A Denson (Hinton)  
Mrs P Ellis  
Mr J Hanlon  
Mr P Harden  
Mr B Heidecker (Coronation)  
Mr R Hill  
Mrs A Hollingshead  
Mrs S Kalia (St Paul)  
Dr B Keeler  
Dr A LaGrange (Red Deer)

Mr D Lee  
Mr S Maerov  
Mr E McCuaig  
Mr C McDonald  
Mr A McKenzie  
Mrs L Miller  
Mr W Newbigging  
Mrs M O'Neill  
Mrs M Pemberton  
Mr W Ross  
Mr B Steblecki (Calgary)  
Mrs J Wahl (Peace River)  
**Senate Staff**  
Mrs R M Totman (Executive Officer)  
Mrs D Kostash (Executive Secretary)  
Mrs M J MacDonald (Task Force Coordinator)

### Committee Memberships

#### STANDING COMMITTEES

**Executive**  
Chancellor Mactaggart (Chair)  
Dr Davenport (*ex officio*)  
Mr Boissonnault  
Mrs Edwards  
Mr Henning  
Mrs Lobay  
Mr Newbigging  
Mrs Pemberton  
Mr Sheridan

#### Finance and Evaluation

Mr Henning (Chair)  
Chancellor Mactaggart (*ex officio*)  
Mrs Ellis  
Dean Foth  
Mr Kennedy  
Mr Maerov  
Mr Ross  
Mrs Shortt  
Mr Welsh

#### Honorary Degrees

Chancellor Mactaggart (Chair)  
President Davenport (*ex officio*)  
Vice-President McDonald (*ex officio*)

Mr Ahmed  
Mrs Andrews  
Dr Cox-Bishop  
Mr Heidecker  
Dr LaGrange  
Mr Louis  
Mr McCuaig  
Mr McKenzie  
Mr McDonald  
Mr Mustapha  
Mr Steblecki

#### Inquiries and Planning

Mrs Edwards (Chair)  
Chancellor Mactaggart (*ex officio*)  
Dr Denson  
Mr Fryett  
Mr Harden  
Mrs Kalia  
Dean Miller  
Mr Mustapha  
Mr Shirt

#### Nominating

Mrs Pemberton (Chair)  
Chancellor Mactaggart (*ex officio*)  
† Dr Armstrong  
Mr R Hill  
Mr Kennedy  
Mrs Miller

Mr O'Neill  
Dr Stanley  
Mrs Wahl  
**Public Relations and Community Affairs**  
Mr Newbigging (Chair)  
Chancellor Mactaggart (*ex officio*)  
Mrs Badir  
Mr Cheeseman  
Mr Daniels  
Mrs Dechaine  
Mr Hanlon  
Mrs Hollingshead  
Dr Lakhani  
Mrs Robinson  
Director, Office of Public Affairs (*ex officio*)  
Registrar (*ex officio*)

#### TASK FORCES

**Task Force on Student Finance**  
Mrs Badir (Chair)  
Mr Ahmed  
Ms Bishop (GSA appointee)  
Mr Heidecker  
Mr Kennedy  
Mr Lee  
Dr MacKay  
Mr Shirt

#### Downtown Meeting

Dr Lakhani (Chair)  
Mr Cheeseman  
Mr McDonald  
Mrs O'Neill

#### Senate Alumni

Mrs Hollingshead (Chair)  
Mrs Dechaine  
Mrs Fraser  
Dr Olsen

#### Small Group Meetings

Mr Cheeseman (Chair)  
Mr Daniel (Registrar's Office)  
Mr Hanlon  
Mrs Robinson

#### Student Recognition

Mrs Dechaine (Chair)  
Mrs Badir  
Mr Cheeseman  
Mr Chilibeck (Student Awards)  
Mr Mustapha  
Mrs Shortt

#### Faculty of Extension

##### Restructuring Committee

Dr Keeler

##### Futures Council

Dr Williams

##### GFC Academic Development Committee

Mrs Miller

##### GFC Committee on Admissions and Transfer

Dr Williams

##### Lay Observers of the Admissions Process in Quota Programs

Agricultural

Business Management

Mrs Miller

Business

Mrs Miller

Computing Science

Mr McDonald

Criminology

Mrs O'Neill

Dentistry

Mr Cheeseman

Mr R Hill

Occupational Therapy

Mrs Hollingshead

Physical Therapy

Mr Boga

##### Orientation Days - Hosts for Parents

Mr Ahmed

Mrs Dechaine

Mrs Ellis

Mr McCuaig

##### Peter Loughheed Scholarship Committee

Mrs Ellis

##### Student Advisory Services

##### Centre Special Bursaries

##### Selection Committee

Mrs Ellis

##### University Strategic Planning Task Force

Mrs Pemberton

### Farewells

Mrs Allan  
Mr Boissonnault  
Dr Cox-Bishop  
Ms Davidson  
Mr Harden  
Mr Henning  
Mr Kennedy  
Mrs Lobay  
Dr MacKay  
Mr Mustapha  
Mr O'Neill  
Mrs Robinson  
Mr Sheridan  
Mrs Shortt  
Mr Welsh  
Dr Williams

† The Senate was saddened by the news of the unexpected passing of Dr Brock Armstrong in July 1992. Dr Armstrong had been a very active member of Senate for four years.

### Welcome

Mr N Ahmed  
Mr L Billings  
Mr S Black  
Mr J Dempsey  
Mrs I Evans  
Mr T Filewych  
Dr A Fisher  
Mrs O Frost  
Ms S Krstic  
Mrs B-A Pearson  
Ms J Robbins  
Mr G Smith  
Mrs D Storey  
Mr R Turner  
Mr C Watt

Two members still to be appointed from the Board of Governors

*Members of the University of Alberta Senate, 1991-92, photographed in the foyer of the University Extension Centre.*



#### Progress Review of Task Force on University and the North

Mrs Andrews (Chair)  
Judge Caffaro  
Mr McCuaig

#### Progress Review of Task Force on the Delivery of University Education

Dr Keeler (Chair)  
† Dr Armstrong  
Dr Cox-Bishop  
Mrs Graham  
Mrs Meldrum  
Mrs Wahl

#### AD HOC COMMITTEES

##### Convocation Photographs

Mr Welsh (Chair)  
Mr Kennedy  
Mr Maerov  
(with three members of the Convocation Committee)

#### Other Senate Appointments

##### Board of Governors

Mrs O'Neill

##### Council on Student Life

Mr Ross

##### Environmental Research and Studies Centre

Mrs Edwards

##### Ethics Review Committee on Human Experimentation

Dr Keeler

##### Faculty Visiting Committee Chair

Mrs Edwards (Arts)

##### Faculty of Extension Council

Ms Davidson  
Mr Lee  
Mr Louis

##### Drama and Theatre Design

Mrs Hollingshead

##### Education

Dr Williams

##### Engineering

Mrs Ellis

##### Law

Mr Heidecker

##### Medical Laboratory Science

Mr K Hill

##### Medicine

Mrs Ellis

##### Nursing

Mr Ross

##### Pharmacy and

##### Pharmaceutical Sciences

Mrs Kalia

##### Physical Education

##### and Sport Studies



## Former Saskatchewan premier says narrow definition of democracy crippling Canada

### Allan Blakeney presents Second Annual Merv Leitch QC Lecture

It's no accident that Canada has one of the most centralist constitutions in the Western world, yet is in fact one of the most decentralized federations, says the former New Democratic Party Premier of Saskatchewan.

"I attribute this to the lack of an effective regional voice at the centre," Allan Blakeney said 24 November. There is a lack of acceptance of federal government decisions by many Canadians, and as a consequence, a continual attempt to deal with that lack of legitimacy by transferring law-making powers from the centre to the provinces.

"For those who wish for a Canada with a strong central government able to deal with national issues, nothing would add more strength to the federal Parliament than an

*"We must suspend the use of the term democracy as the essence of all that is good in government, or else give it a broader meaning than the one-person, one-vote in all cases definition."*

effective regional voice expressed in a reformed Senate," said Blakeney, the Second Annual Merv Leitch QC Lecture speaker. (Also present was the first speaker, former Alberta Premier Peter Lougheed. The lecture alternates each year between the Faculties of Law at the University of Alberta and the University of Calgary.)

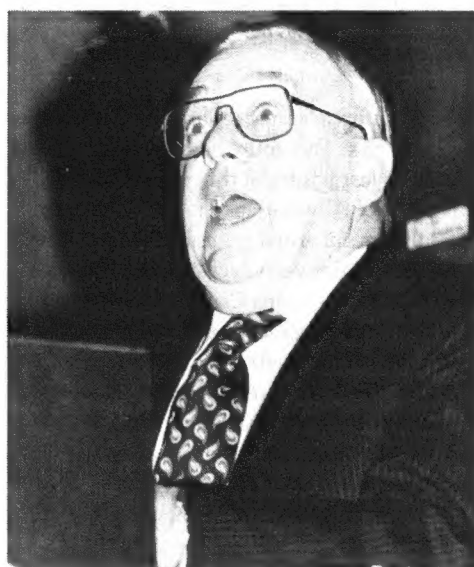
Blakeney condemned the narrow "one person, one vote" definition of democracy

that emerged during the Charlottetown Accord debate, and was used by many opponents of the Accord to criticize some of its provisions. "We must suspend the use of the term democracy as the essence of all that is good in government, or else give it a broader meaning than the one-person, one-vote in all cases definition.

"The strengthening of the Canadian federation should not fall victim to the pedantic definition of democracy suitable perhaps for a unitary state, but wholly inappropriate for a country as diverse as Canada," Blakeney said.

The former premier suggested that a broader definition of democracy include some concept of governments representing all citizens, reflecting geographic representation—and very possibly representing ethnic and religious groups. "It's certainly untidy, but it has the virtue of reflecting reality. It reflects the reality that in many countries—including Canada—citizens do not think of themselves only as citizens of Canada. They think of themselves as citizens of their province, as francophone, as aboriginal people ... and seek to have these realities reflected in their government."

Federalism is not a panacea, and there is still unfinished business related to the Supreme Court, Senate, amending formula and the embodiment of a common set of beliefs, he said, "but Canada is a very successful federation even if our formal attempts to redesign it do not inspire confidence.



Allan Blakeney, former premier of Saskatchewan

"We need to expand our ideas of how institutions, which will resolve conflicts between states, can be created and strengthened on a world scale. There are few models, but the world's federations are the best places to start. Canada, where we attempt to balance geographic diversity and ethnic diversity within a single federation, is a model worth considering."

The Merv Leitch QC Lecture and Memorial Scholarships are supported by an endowment. Lougheed, who graduated in 1952 from Law, the same year Merv Leitch did, said his friend and colleague, who died in 1990, would be delighted to see the cooperation between the two institutions in establishing the annual scholarships and lecture.

The lecture was attended by members of the Leitch family and many alumni.

## Good news! Value of Cambridge Scholarship goes up

The Right Honourable Sir Winston Churchill Society of Edmonton, Canada, has increased the amount of its scholarship from \$20,000 per annum to \$25,000.

The scholarship is tenable at Churchill College, Cambridge, for a University of Alberta graduate to carry on advanced studies in engineering. A new scholar is accepted every other year and supported for three years at Churchill College.

The award is normally made to a student immediately on completion of a bachelor's or master's degree, although candidates who have spent one or more years in industry following graduation may also be considered. The scholarship is reduced by \$8,000 for each other major award held by a scholar.

Applications by letter should be made to the Dean of the Faculty of Engineering by 15 January 1993.

## GARDEN CRAFTERS CHRISTMAS FAIR

The University of Alberta Devonian Botanic Garden Crafters Association will hold its Christmas Fair on Sunday, 6 December, from 11 am to 4 pm. There will be a large selection of Christmas floral arrangements, wreaths and hangings, and refreshments will be served. There will also be free hay rides and cross-country skiing, weather permitting.

The Devonian Botanic Garden is located on Highway 60, north of Devon.

## Western Canadian university libraries working together to meet client needs

### Exploring ways of striking cooperative agreements

Librarians in western Canadian universities are exploring ways they can cooperate with one another to serve students and staff better.

At a recent meeting in Saskatoon of The Council of Prairie and Pacific University Libraries (COPPUL), members discussed some of the strategies they might use in an era of dwindling resources. The meeting focused on the development of an information plan for the university libraries of the region.

COPPUL, chaired by University of Alberta Director of Libraries Ernie Ingles, has directors from the 13 university libraries in the provinces of Alberta, Manitoba, Saskatchewan and British Columbia. Its mandate is to promote better information services to faculty, students, and the general public, where appropriate. Council institutions hope to do that by sharing resources, rapidly delivering documents, sharing information and cooperatively developing collections.

The information plan for the universities—characterized by Ingles as a process and not something that simply sits on a shelf—is intended to help libraries develop cost-effective, collective and innovative ways to extend cooperative efforts. For example, the council wants to have cooperative agreements among institutions on document delivery, use of electronic and datafile services, and reciprocal access to all library catalogues.

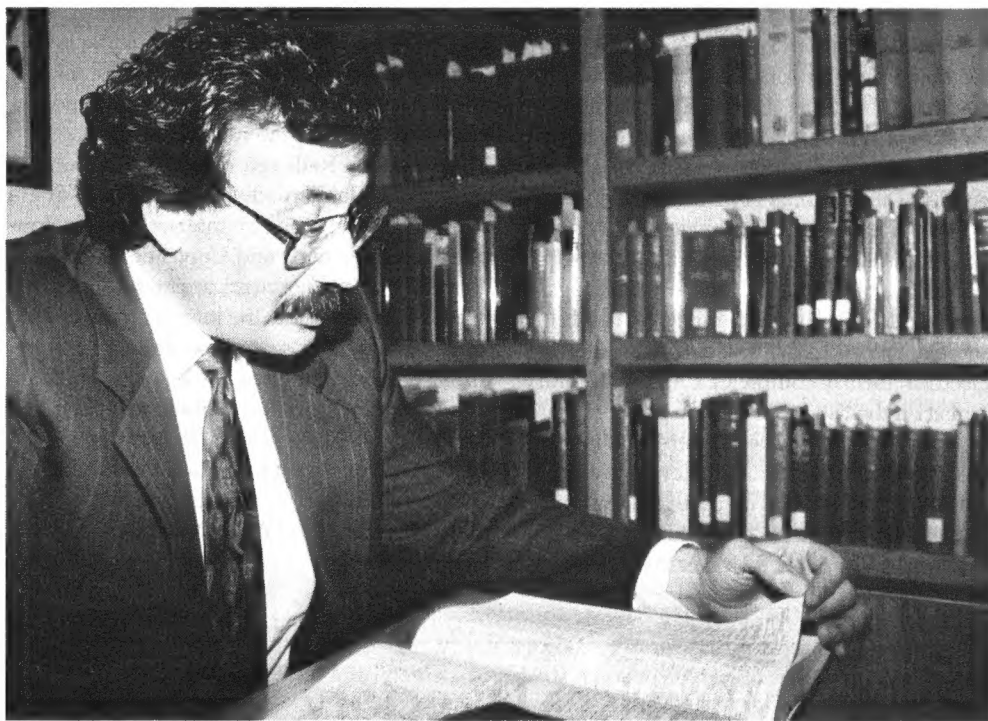
"It's a very fine line you walk, trying to develop these regional initiatives without treading on institutional toes and impera-

tives," says Ingles. "We have to make sure we understand what everybody's sensitivities are, understand what everybody's priorities are within their home institutions and then build on those and see where we can make marginal gains on the collections side and link our systems on the technology side."

Ingles predicts COPPUL's first successes will be in linking catalogues. There will likely be successes in the area of document delivery. "The third area, coordinating our collections, is a tough one. That's where the real slogging has to come. That's where some real political decisions will have to be made," he said, pointing out that those decisions may have to be made at a higher level than that where libraries reside.

Ingles sees three primary, interrelated areas where work has to be done. "In our libraries we have a lot of duplication. It's questionable whether we have to be building identical libraries. There are core collections—it's a lot of material—that everyone must have, however, and each library has the responsibility of servicing as much of its local need as possible."

More and more of the material that falls outside of the core material has to be increasingly shared by universities, he said. "You've got to have some of it, but increasingly we just can't afford to have it all. We kid ourselves that we even have ever had it," he said, pointing out that the growth of information is so vast that single university libraries alone can never hope to keep up.



U of A Director of Libraries Ernie Ingles

"We've got to share and come to agreements that this library or that library will collect in certain areas, and create resource-sharing networks. Unless we do this, we're all going to go down together."

Secondly, if the initiatives to avoid duplication are at least partially successful, students and staff, from their libraries, offices and homes, will have to be able to use the U of A's catalogue as a "gateway" to the other catalogues, so they know where the material is. "We have to be able to know who's got what and where."

And thirdly, once a user knows where the material is in the region, they must have some mechanism to get the material. That may

mean using couriers, faxes or new technological systems to transmit material. Delivering those materials in three or four weeks is simply not good enough. "We've got to do it within three or four days [depending on how fast the user wants the material], and in fact what we're searching for are ways and means of doing it within three or four hours. We're approaching that. We're now getting down to within one or two days with a great many materials."

Cooperation among libraries is certainly not new, he said, but that process is being accelerated by two factors, need and innovations in telecommunications and computer technology.



# Planning and Development Projects Report

The following report provides an overview of the major University of Alberta Planning and Development Projects in progress.

## Program Planning

**General Space Programs (GSP):** A GSP has been initiated recently for the Faculty of Dentistry to establish broad space and facilities requirements in relation to current program needs. A GSP and accommodation plan is under way for Library space that has come free as a result of the off-campus auxiliary stack facility at Eastpoint. Cameron Library and Rutherford North and South Libraries are the buildings primarily affected. Also, a comprehensive GSP and accommodation plan is being revised for the six departmental units in the HM Tory Building. A GSP was recently completed for the Department of Computing Science; by way of follow-up, a review of options is under way for expansion and consolidation of its facilities.

**Detailed Space Programs (DSP):** Both general and detailed space programming have been completed for University Health Services and Student Counselling. A detailed accommodation plan for the Law Centre will be started shortly.

## Planning

**Sign System Guidelines:** Sign guidelines for interior space have been completed and are being used on a daily basis. A strategic plan for the review and updating of exterior sign guidelines is being initiated to address sign information needs of both the University community and the public.

**Devonian Botanic Garden:** Planning is under way to update the Long Range Plan produced in 1978. A first draft is under review; it documents existing conditions and outlines development proposals for the future.

**Facility Evaluations:** The University has been requested by Alberta Advanced Education to undertake a pilot project in facilities evaluation, a process of assessing the physical and functional condition of a particular building. The Departments of Planning and Development and Physical Plant have been working together over the past several months to evaluate various buildings on campus. Buildings involved to this point include Tory, South Lab and Dentistry-Pharmacy (complete) and Civil-Electrical (nearly complete). Cameron Library is next on the list.

**Bicycle Routes:** The University generates the highest concentration of bicycle traffic in the city. A long-standing route used by cyclists in the south campus takes in the connection between 115 Street and University Avenue and

the main campus at approximately 87 Avenue and 114 Street. This route has been under review since last winter at the request of the University of Alberta Hospitals. The UAH is particularly concerned with safety in relation to the conflict between cyclists and patients of the Mewburn Veterans Centre and UAH service vehicles. An ancillary but key issue in these discussions involves the use of the Jubilee Auditorium parking lot as a bike route. Organizations owning land in the south campus are currently examining the issues and anticipate a resolution by the spring.

**Parks and Recreation Trails:** Council recently approved the document *Ribbon of Green*, a concept plan for trail development in the river valley and ravine system involving the western section of the city. The plan affects two segments of undeveloped University property. One is located along the North Saskatchewan River north of the main campus and the other is in the Whitemud Creek ravine through the West 240 property. The University is now considering a request by the City for access through both properties.

## Renovations and Development

**University LRT Station and 89 Avenue:** On 23 August 1992, the official opening of University Station was held. University Station is an important node in the system because it connects the north and south sides of the river and serves a high employment and student centre within the city. The following week, transit service returned to 89 Avenue which had been converted into a one-way (eastbound) bus and service vehicle only circulation route. This design has improved safety conditions on 89 Avenue and created an esthetically pleasing pedestrian environment on campus. The redevelopment seems to be working well for both buses and pedestrians. Motorists are reminded that 89 Avenue is no longer a thoroughfare, and cyclists are asked to take due care and to pay attention to pedestrians and observe the rules of the road.

**114 Street Redevelopment:** The City has all but completed roadway construction of 114 Street, including the two intersection developments at 72 Avenue and University Avenue. Transportation engineers are monitoring traffic flows to adjust the intersection signals as necessary. Landscaping that wasn't finished will be completed in the spring.

**Eastpoint (Auxiliary Library Stacks):** Eastpoint is an off-campus facility that is being designed to hold Library books that are used infrequently (these books will remain readily available). Detailed design is under way.

**Agriculture and Forestry Biotechnology Facility:** A major biotechnology laboratory is to be constructed in vacated and relocated space within the Agriculture-Forestry Centre. The project has just been tendered and construction will start this month.

**Glaxo Heritage Research Institute:** Through the joint efforts of government and industry, a major viral pathogenesis laboratory is planned for development in the Heritage Medical Research Building. Detailed design is under way.

**University Exam Centre:** An exam centre has been approved for vacant space in Corbett Hall which was originally used as a gymnasium. Funding is being sought.

**Timms Centre for the Arts:** The Centre is planned for the site south of the Fine Arts Building on 112 Street, and will be occupied by the Department of Drama. It is anticipated that the project will be tendered in the new year and construction will begin in late winter.

**Animal Research Facilities:** Construction has recently been completed to provide im-

proved facilities in the Heritage Medical Research Building. In addition, construction to upgrade animal research space in the same building is under way.

## Space Planning and Management

Several space planning and management activities are being addressed as part of the ongoing review of unit space requests, space alteration proposals, overall campus space utilization, and the study of long-term space allocation possibilities. The most noteworthy projects at this time include:

- space occupancy review of Printing Services
- space occupancy review of University space in SUB, including a potential move of Career and Placement Services.

Anyone wishing to obtain additional project information is asked to call Planning and Development at 492-4966.

## AWARD OPPORTUNITIES

### NSERC UNDERGRADUATE STUDENT RESEARCH AWARDS

**Value:** \$1,125/month (up to a maximum of four months).

**Eligibility:** A candidate must:

- be a Canadian citizen or permanent resident;
- be currently registered as a full-time student in an eligible undergraduate program in the natural sciences or engineering;
- be registered in a bachelor's degree program leading to an honors degree or a degree with a major;
- not be registered in a professional degree program;
- as of 1 May 1992 not have more than four terms of academic work remaining for completion of a bachelor's degree;
- not have started a graduate program.

**Deadline date:** 18 January 1993. This deadline is for the Office of Student Awards. Your Faculty/Department may have an earlier deadline in order for applications to be ranked before being sent to Student Awards. If interested in this award, please contact the Chair/Dean of your Department/Faculty or the Office of Student Awards, 252 Athabasca Hall.

### NSERC UNDERGRADUATE STUDENT RESEARCH AWARDS TARGETED TO WOMEN STUDENTS

**Value:** \$1,125/month (up to a maximum of four months).

**Eligibility:** A candidate must:

- be a female Canadian citizen or permanent resident;
- be currently registered as a full-time student in an eligible undergraduate program in the physical sciences or engineering;
- be registered in a bachelor's degree program leading to an honors degree or a degree with a major;
- not be registered in a professional degree program;
- as of 1 May 1993, have completed the first year of an undergraduate program in physical sciences or in engineering;
- received at least first class standing to date.

**Deadline date:** 18 January 1993. This deadline is for the Office of Student Awards. Your Faculty/Department may have an earlier deadline in order for applications to be ranked before being sent to Student Awards. If interested in this award, please contact the Chair/Dean of your Department/Faculty or the Office of Student Awards, 252 Athabasca Hall.

### THE QUEEN ELIZABETH SILVER JUBILEE ENDOWMENT FUND FOR STUDY IN A SECOND OFFICIAL LANGUAGE AWARD PROGRAM

**Field of study:** Open. Translation programs are excluded.

**Value:** \$5,000 and transportation expenses of one return trip between the recipient's place of residence and the university to be attended.

**Number:** The University of Alberta may nominate one candidate to Ottawa. Ottawa in turn will select a minimum of six recipients.

**Conditions:** Candidates must be Canadian citizens or permanent residents and be currently enrolled in the second or third year of their first undergraduate university program. Candidates must have sufficient ability in their second official language to pursue their studies in that language. In addition to having good academic standing, candidates must also be well-motivated and adaptable. Preference will be given to candidates who wish to study at another educational institution, in a milieu in which their second official language is predominant.

**Where tenable:** At any Canadian university which is a member of, or affiliated with a member of, the AUCC and which offers instruction in the student's second official language. Courses must be undertaken on the campus of a Canadian institution in Canada.

**Apply:** Applications are available at the Office of Student Awards, 252 Athabasca Hall.

**Deadline:** 22 January 1993.

## University Services Directory makes its debut

If the University's new Telecommunications Directory (effective November 1992) seems a mite thicker, it's because the University Services Directory has been added.

The eight-page listing (yellow pages, no less) is "an innovative, current listing of many of the academic and administrative services available to our faculty, staff and students," says Technical Services Director Judy Ross. "It's a subject-driven rather than department-driven service directory."

The directory, which was worked on for about a year, will soon be incorporated into the CNS Campus Wide Information System

(CWIS). As noted in the preamble to the directory, the CWIS file will be updated regularly and therefore may be more current than the listing in the Telecommunications Directory.

If a department or unit has a service that's available campus-wide, they're welcome to add it to the directory, Ross says, adding that it doesn't matter whether the service is free or not.

"There's an incredible amount of services available on campus," Ross told *Folio*. She believes there will be a number of additions to the directory, with "Consultants" being one of the areas that will expand.



# EVENTS

## EXHIBITIONS

### ART AND DESIGN

Until 17 December

"Tommie Gallie: Pressure Points"—a local sculptor who works with wooden structures. Edmonton Art Gallery.

### CLOTHING AND TEXTILES COLLECTION

Until 18 June

"Changing Suit: The Evolution of Men's Business Wear 1955-85"—an exhibition of men's wear from the collection. Hours: Monday to Friday, 8:30 am to 5 pm. Basement, Home Economics Building.

### FAB GALLERY

Until 20 December

"Of a (W)hole—Kim Huynh"—this exhibition is the final visual presentation in partial fulfilment of the requirements for the degree of MVA in printmaking.

Until 20 December

"Lasting Impressions"—an exhibition and portfolio of prints produced by faculty members, technicians and senior students of Art and Design. Gallery hours: Tuesday to Friday, 10 am to 5 pm; Sunday, 2 to 5 pm; Monday and Saturday, closed. 1-1 Fine Arts Building.

### MCMULLEN GALLERY

Until 5 January

"A Country School Christmas"—monoprints by Margaret Seelye—and "At Home: Selected Animals in their Environment"—mixed media installations by CW Carson.

Gallery hours: Monday to Friday, 10 am to 4 pm; Saturday and Sunday, 1 to 4 pm (subject to availability of volunteers). Information: 492-8428, 492-4211. Walter C Mackenzie Health Sciences Centre.

## FILMS

### GERMANIC LANGUAGES

8 December, 7:15 pm

*Die Blechtrommel* (1978); German with English subtitles, 141 Arts Building.

## MUSIC

### EDMONTON YOUTH ORCHESTRA

13 December, 3 pm

Intermediate Orchestra. \$5 adults, \$3 students and seniors. Convocation Hall.

## SPORTS

### TRACK AND FIELD

12 December

Leduc Last Chance Meet

### VOLLEYBALL

4 to 6 December

Bears North Am Tournament

## HOLIDAY PUBLISHING SCHEDULE

Folio's last issue of 1992 will appear on 11 December. The initial issue of 1993 will appear on 15 January. In both cases, the standard deadlines for copy and advertisements will be observed.

# TALKS

### GEOGRAPHY

4 December, 3 pm

Don Lemmen, The Geological Survey, Calgary, "The Palliser Triangle Global Change Program." 3-36 Tory Building.

### GEOLOGY

4 December, 4 pm

P Erdmer, "A Geological Overview of West Greenland: Stratigraphy, Scenery, People and Kimberlites." 1-04 Earth Sciences Building.

### PHILOSOPHY

4 December, 3 pm

Martin Davies, Wilde Reader in Mental Philosophy, Oxford University, "The Mental Simulation Debate." 4-29 Humanities Centre.

### PHYSICS

8 December, 3:30 pm

G Kunstatter, University of Winnipeg, "Two-Dimensional Quantum Gravity and Black Holes: An Exactly Solvable Model." 631 Avadh Bhatia Physics Laboratory.

9 December, 3:30 pm

EA Martinez, University of Bern, "Thermodynamical Action and Rotating Black Holes." 631 Avadh Bhatia Physics Laboratory.

### PLANT SCIENCE

8 December, 12:30 pm

Mei Geng, "ABA and Plan Development." 1-30 Agriculture-Forestry Centre.

10 December, 12:30 pm

J Sergio Moroni, "Plants in Space: Influence of Microgravity on Plant Growth and Development." 1-30 Agriculture-Forestry Centre.

### RURAL ECONOMY

7 December, 3:15 pm

Joan Fulton, "Factors that Influence the Commitment of Members to Their Cooperative Organization." 519 General Services Building.

14 December, 3 pm

Randy Wigle, professor, Department of Economics, Wilfrid Laurier University, "Trade Policy as Environmental Policy." Cosponsor: Environmental Economics Workshop. 8-22 Tory Building.

### ANIMAL SCIENCE

7 December, 2 pm

Patricia E Weinwright, associate dean, Faculty of Applied Health Sciences, University of Waterloo, "Do Essential Fatty Acids Play a Role in Brain and Behavioral Development?" 2F1.04 Mackenzie Health Sciences Centre.

### ANTHROPOLOGY

15 December, 3 pm

Beatrice Collignon, Laboratoire d'Epistemologie de la Geographie, Versailles, France, "The Evolution of a Pattern: Seasonal Movements and the Relations to the Territory of the Historic and Contemporary Inuit." 14-6 Tory Building.

### CANADIAN INSTITUTE FOR NORDIC STUDIES

7 December, 7:30 pm

Heidi von Born, writer, Sweden, "The Swedish Literary Scene." L-3 Humanities Centre.

### CENTRE FOR RESEARCH IN MATERNAL, FETAL AND NEWBORN HEALTH

10 December, noon

James Roberts, Department of Obstetrics and Gynaecology, McGee Women's Hospital, University of Pittsburgh, Pennsylvania, "The Role of Endothelin Dysfunction in the Pregnancy Disorder Preeclampsia." Sponsor: Alberta Heritage Foundation for Medical Research. 2J4.02 Mackenzie Health Sciences Centre.

10 December, 7:30 pm

Dr Roberts, "High Blood Pressure During Pregnancy. Is it a Cause for Concern?" Bernard Snell Hall, Mackenzie Health Sciences Centre.

### ENVIRONMENTAL RESEARCH AND STUDIES CENTRE

9 December, 1 pm

Margaret-Ann Armour, "Environmental Research: Controversial Chemicals in the Environment." Registration: 492-6659. M-149 Biological Sciences Centre.

### FAMILY STUDIES

7 December, 11 am

Njeri Waiyaki, "Reproductive Decision Making Among Kenyan Women: Themes and Changing Patterns." 3-57 Assiniboia Hall.

# POSITIONS

The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.

### SUPPORT STAFF

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 27 November 1992. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin, the postings in PSSR and/or call the Job Information Line at 492-7205 (24 hours). Positions available as of 27 November 1992.

The salary rates for the following positions reflect adjustments in accordance with the new classification system and pay plan.

PROGRAMMER ANALYST (INFORMATION MANAGEMENT ANALYST) (Grade 9) (Term to 31 December 1993), (Office of the Registrar), (\$2,636 - \$3,343)

PROGRAMMER ANALYST (Grade 10), Advancement Services (\$2,839 - \$3,620)

The following positions retain salary rates in accordance with the previous classification system and pay plan.

ACCOUNTS CLERK (Trust/Part-time), Surgical-Medical Research Institute (\$1,067 - \$1,364) (prorated)

SECRETARY - CLINICAL TRIALS (Trust), Medicine (Cardiology), (\$1,779 - \$2,273)

TECHNOLOGIST I (Trust), Biochemistry (\$2,273 - \$2,933)

TECHNOLOGIST I/II (Trust), Pharmacology, (\$2,273 - \$3,202)

### ST JOSEPH'S COLLEGE

8 December, 7:30 pm

Sr Louise Zdunich, "Understanding Catholicism—Mary and the Saints." St Joseph's College.

### SOIL SCIENCE


17 December, 12:30 pm

Gerry Coen, Land Resources Unit, Agriculture Canada, "Land Management and Soil Data Base Use." 2-36 Earth Sciences Building.

### ZOOLOGY

4 December, 3:30 pm

Reuben Kaufman, "All I Really Need to Know About Tick-Borne Viruses I Learned in Oxford." M-149 Biological Sciences Centre.

 This symbol denotes environmentally related seminars/events. If you wish to have an environmentally related event listed in this way, please contact: The Environmental Research and Studies Centre, 492-6659.

# ADS

### ACCOMMODATIONS AVAILABLE

VICTORIA PROPERTIES - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call (604) 595-3200, Lois Dutton, Re/Max, Ports West, Victoria, BC.

RENT - Lynnwood, west end, bright, cozy bungalow. Three minutes from Meadowlark Shopping Centre. Immediate. \$900/month. Janet Jenner, Spencer Realty, 435-0808.

RENT - Central, Glenora, renovated character home. Vaulted ceiling, circular stairs, immediate. \$1,500/month. Janet Jenner, Spencer Realty, 435-0808.

RENT - Old Strathcona, one bedroom apartment, 1,300' plus. European kitchen, convection oven, refrigerator/ice maker, skylights, jacuzzi, solarium, hardwood floors, accents. Intercom, private entrance, wood-burning stove. \$970. View, 433-2269.

RENT - Furnished, three plus bedroom sabbatical house, two bathrooms, five appliances. January - June, \$900/month. 455-5532, 492-7544.

RENT - 9929 Saskatchewan Drive. \$1,250, condo fee included, full amenities. 438-5975.

RENT - Three bedroom home, Lendrum. 1 1/2 baths, main floor. Finished basement/two additional bedrooms, family room/bathroom. New fridge/stove. Quiet yard, garage. Otto, 468-6307.

RENT - Lendrum bungalow, three plus two bedrooms, 2 1/2 baths, basement development, double detached garage. Three appliances, immediate, \$850. Otto Schaaf Realty, 468-6307.

RENT - Crestwood, three bedroom bungalow. Basement, den, single attached garage. Immediate, \$800. Otto Schaaf Realty, 468-6307.

RENT - Northeast, newer, executive home. Many extras, large yard. \$1,200, immediate. Otto Schaaf Realty, 468-6307.

**SALE** - Lansdowne, executive, two storey, huge west lot. New oak cabinets, double attached garage. Extras and upgrades too numerous to mention. \$214,600. Carole, Re/Max Realty, 462-5000.

**RENT** - Old Strathcona, three bedroom, furnished main floor suite. Hardwood floors, utilities included, available December. 434-6287.

**SALE** - Exceptional three bedroom, large bungalow, fully finished basement, alarm system, intercom, three full bathrooms, double detached heated garage. Walk to University, ravine. Joan Lynch, Re/Max Real Estate, 433-9025, 438-7000.

**MICHENER PARK** - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. All inquiries welcome, 492-7044.

**RENT** - Furnished, two bedroom condo. Saskatchewan Drive, January - early April. \$600 (negotiable). 439-7153.

**RENT** - Three bedroom main floor, near University, quiet area. Fridge, stove, washer, dryer, half double garage. \$725/month, damage deposit, 1/2 utilities. No pets, nonsmokers, adult couple, 1 December. 435-8812.

**RENT** - Mature, nonsmoking male to share two bedroom furnished house in Parkallen from December 1992 to June 1993. Utilities and cable included. \$350. 437-2810.

**SALE** - Superb, luxury, high-rise condo. #1601, Claridge House. 1,430', two bedrooms, six appliances, air conditioning, underground parking. For comfort, security, convenience in great location, call Jack Bawden, Royal LePage, 437-7480.

**SALE** - Riverbend, three special, two storey homes. Four bedrooms, extra den/study, double garages, quiet crescent locations. From \$225,000. Liz Crockford, Spencer Realty, 435-0808.

**SALE** - Gracious setting backing on the ravine. Beautiful brick, totally updated, 4,700' two storey, triple garage. Drastic price reduction of \$200,000. Call Liz Crockford, Spencer Realty, 435-0808.

**SALE** - Yes! You'll be home in five minutes, still enjoy the river valley, large lot, view. Extensively upgraded, fully developed bungalow, Saskatchewan Drive. New features! Liz Crockford, Spencer Realty, 435-0808.

**RENT** - Windsor Park. Two storey, three bedrooms plus den, garage. Scott, 433-0646.

**SALE** - Saskatchewan Drive. Super view property and only \$267,000. Large bungalow, huge lot. Call Chris Tenove, Spencer Realty, 435-0808, 433-5664.

**RENT** - University/Strathcona. New spacious condo, two bedrooms, two baths, fireplace, elevator, five appliances, two parking. Nonsmoking, January. 998-3988.

#### ACCOMMODATIONS WANTED

**MATURE, UNIVERSITY EMPLOYEE** available to housesit. Previous experience. Phone Joanna, 433-8668 or 492-6365.

**MATURE, MASTER'S STUDENT** wishes to housesit (experienced) or rent single lodging. 439-1239.

#### GOODS FOR SALE

**CASH PAID FOR APPLIANCES**, 432-0272.

**POTTERY BY AKIKO KOHANA** - Sunday, 6 December, 11 am - 4:30 pm. 12512 66 Avenue.

#### SERVICES

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**PROFESSIONAL SEAMSTRESS** - Specialize in bridal wear, dresses, slacks, suits, blouses made to order. Available in irregular sizes. General alterations. "Special" jeans hemmed, \$1.99. Contact Phil, 469-6292.

**HEARTWOOD RENOVATIONS** - Complete interior renovations. Specializing in basements, bathrooms, kitchens. Count on us for all your home repairs. No job too small. References available. Phone Dennis Ellerman, 466-5941.

**ANITA JENKINS, WRITER/EDITOR**. Theses, letters, résumés, journal articles. 474-6656.

**MARK EHRMAN CABINET SERVICES** - Custom designs or made to match existing. References available. 463-0889.

**WORD EXPRESS** - Experienced technical editor. Books, proposals, conference papers, journal submissions, reports, etc. 987-3555.

**TECH VERBATIM** - Word processing, WP 5.1, Word 5.0, medical terminology, laserprint, campus location. Donna, 440-3714 evenings, weekends.

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### "High Blood Pressure during Pregnancy: Is it Cause for Concern?"

by  
**Dr. James Roberts, Professor**  
Department of Obstetrics and Gynaecology,  
McGee Women's Hospital,  
University of Pittsburgh, Pittsburgh, PA.

Thursday, December 10, 1992  
7:30 p.m. Bernard Snell Hall  
Walter C. MacKenzie  
Health Sciences Centre  
University of Alberta Hospitals

Dr. Roberts will discuss the pregnancy disorder, preeclampsia, which affects 7% of pregnant women, and is a leading cause of maternal mortality. He will describe the mechanisms involved in preeclampsia and new therapeutic approaches to the condition.

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